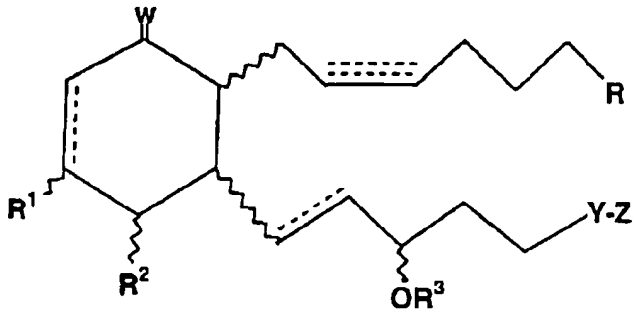
Patent 17609 (AP)

LISTING OF THE CLAIMS

1-13 (Cancelled)

14. (Currently amended) An ophthalmic solution comprising a therapeutically effective amount of a compound of formula I:



or a pharmaceutically acceptable salt thereof, in admixture with a non-toxic, ophthalmically acceptable liquid vehicle, packaged in a container suitable for metered application wherein the wavy segment represents an α or β bond, a dashed line represents the presence or absence of a bond, R^1 is H, R^2 is OH, R^3 is H;

W is O;

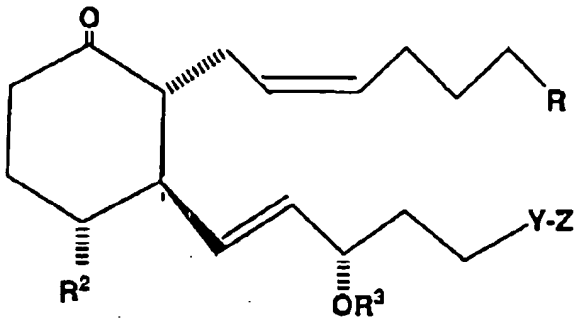
R is selected from the group consisting of CO_2R^4, $CONR^4_2$, CH_2OR^4, $CONR^4SO_2R^4$, and $P(O)(OR^4)$;

R^4 is selected from the group consisting of H, phenyl and lower alkyl having from one to six carbon atoms;

Y is a covalent bond or is selected from the group consisting of CH_2, O, S and N; and

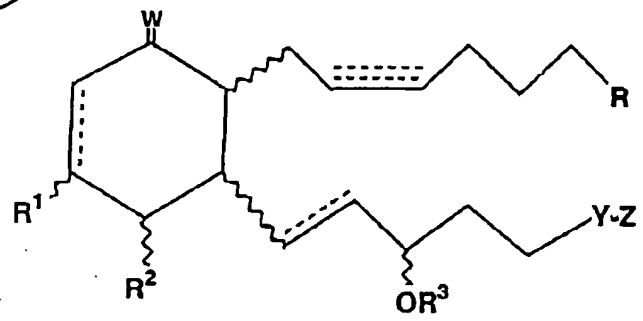
Z is benzothiophenyl or substituted benzothiophenyl ~~heteroaryl a heterocyclic aromatic radical having from four to ten carbon atoms and including a heterocyclic atom selected from the group consisting of nitrogen, oxygen and sulfur~~.

15. (Original) The ophthalmic solution of Claim 14 wherein said compound is a compound of Formula III



16-20 (Cancelled)

21. (Currently amended) A compound represented by formula I:



wherein the wavy segment represents an α or β bond, a dashed line represents the presence or absence of a bond,

R^1 is H, R^2 is OH, R^3 is H;

W is O;

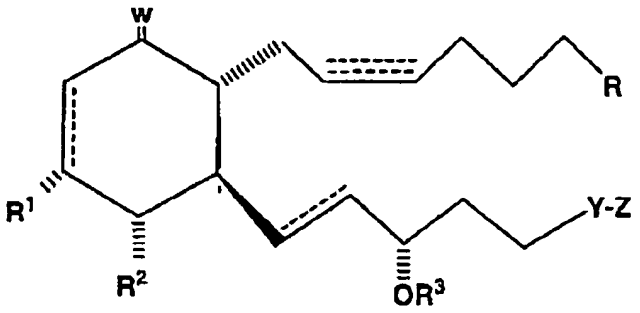
R is selected from the group consisting of CO_2R^4, $CONR^4_2$, CH_2OR^4, $CONR^4SO_2R^4$, and $P(O)(OR^4)$;

R^4 is selected from the group consisting of H, phenyl and lower alkyl having from one to six carbon atoms;

Y is a covalent bond or is selected from the group consisting of CH_2, O, S and N; and

Z is benzothiophenyl or substituted benzothiophenyl ~~heteroaryl a heterocyclic aromatic radical having from four to ten carbon atoms and including a heterocyclic atom selected from the group consisting of nitrogen, oxygen and sulfur~~.

22. (Previously amended) The compound of claim 21 wherein said compound is represented by formula II:



wherein the hatched segment represents an α bond and the solid triangle represents a β bond.

23-34. (Cancelled)

35. (New) The solution of claim 15, wherein said compound is selected from the group consisting of

(Z)-7-{(1R,2R)-2-[(E)-5-(3-Chloro-benzo[b]thiophen-2-yl)-3-hydroxy-pent-1-enyl]-6-oxo-cyclohexyl}-hept-5-enoic acid;

(Z)-7-{(1R,6R)-6-[(E)-5-(3-Chloro-benzo[b]thiophen-2-yl)-3-hydroxy-pent-1-enyl]-2-oxo-cyclohex-3-enyl}-hept-5-enoic acid;

(Z)-7-{(1R,2R,3R)-2-[(E)-5-(3-Chloro-benzo[b]thiophen-2-yl)-3-hydroxy-pent-1-enyl]-3-hydroxy-6-oxo-cyclohexyl}-hept-5-enoic acid;

7-[(1R,2R,3R)-2-((E)-4-Benzo[b]thiophen-3-yl-3-hydroxy-but-1-enyl)-3-hydroxy-6-oxo-cyclohexyl]-hept-5-ynoic acid;

(Z)-7-[(1R,2R,3R)-2-((E)-4-Benzo[b]thiophen-3-yl-3-hydroxy-but-1-enyl)-3-hydroxy-6-oxo-cyclohexyl]-hept-5-enoic acid; and

(Z)-7-{(1R,2R,3R,6R)-6-Chloro-2-[(E)-5-(3-chloro-benzo[b]thiophen-2-yl)-3-hydroxy-pent-1-enyl]-3-hydroxy-cyclohexyl}-hept-5-enoic acid.

36. The compound of claim 22, selected from the group consisting of

(Z)-7-{(1R,2R)-2-[(E)-5-(3-Chloro-benzo[b]thiophen-2-yl)-3-hydroxy-pent-1-enyl]-6-oxo-cyclohexyl}-hept-5-enoic acid;

(Z)-7-{(1R,6R)-6-[(E)-5-(3-Chloro-benzo[b]thiophen-2-yl)-3-hydroxy-pent-1-enyl]-2-oxo-cyclohex-3-enyl}-hept-5-enoic acid;

(Z)-7-{(1R,2R,3R)-2-[(E)-5-(3-Chloro-benzo[b]thiophen-2-yl)-3-hydroxy-pent-1-enyl]-3-hydroxy-6-oxo-cyclohexyl}-hept-5-enoic acid;

7-[(1R,2R,3R)-2-((E)-4-Benzo[b]thiophen-3-yl-3-hydroxy-but-1-enyl)-3-hydroxy-6-oxo-cyclohexyl]-hept-5-ynoic acid;

(Z)-7-[(1R,2R,3R)-2-((E)-4-Benzo[b]thiophen-3-yl-3-hydroxy-but-1-enyl)-3-hydroxy-6-oxo-cyclohexyl]-hept-5-enoic acid; and

(Z)-7-{(1R,2R,3R,6R)-6-Chloro-2-[(E)-5-(3-chloro-benzo[b]thiophen-2-yl)-3-hydroxy-pent-1-enyl]-3-hydroxy-cyclohexyl}-hept-5-enoic acid.